

Amendments to the Claims:

This listing of claims replaces all prior listings of claims:

Listing of Claims:

1. (Currently Amended) An apparatus, comprising:
 - a resolver configured to perform name resolving;
 - a first connector configured to provide a first direct connection to a first network, using a first network protocol;
 - a second connector configured to provide a second direct connection to a second network using a second network protocol, wherein, when the resolver in the first network forwards a name resolving request to a domain name service server in the second network, the name resolving request is sent directly from the resolver in the first network to the second network without using a network address translator server configured to process packets other than the name resolving request sent to the second network; and
 - a translator configured to perform address translation between the first network and the second network, the translator, separate from the network address translator server, performing address translation on the name resolving request sent directly to the second network without using the network address translator server;
- wherein the resolver and the translator are configured to co-operate in order to translate addresses upon performing name resolving, and wherein the resolver and the translator are configured on the same domain name server for resolving the name resolving request rather than data traffic corresponding to the packets other than the name resolving request and occurring after the name resolving is performed.

2. (Previously Presented) The apparatus according to claim 1, wherein the apparatus comprises a domain name service server, and wherein the translator performs address translation on a response to the name resolving request sent to the second network.

3. (Previously Presented) The apparatus according to claim 1, wherein the translator is configured to select a particular network address translating element to be used for a connection between a first host in the first network and a second host in the second network, and

wherein the translator is configured to add network address translating element information to the resolved address.

4. (Previously Presented) The apparatus according to claim 3, wherein the network address translating element information is an address prefix.

5. (Previously Presented) The apparatus according to claim 3, wherein the translator is configured to select a network address translating element based on information regarding the load on the network address translating element.

6. (Previously Presented) The apparatus according to claim 1, wherein the first protocol is internet protocol version 6, and the second protocol is internet protocol version 4.

7. (Previously Presented) The apparatus according to claim 1, wherein the resolver of the apparatus is configured to send a name resolve request to a name resolving element located in the second network.

8. (Currently Amended) A system, comprising:
a network name resolving element and at least two network address translating elements,

the network name resolving element configured to perform name resolving in a network system which includes a first network using a first network protocol and a second network using a second network protocol, the network element comprising

a resolver configured to perform name resolving,

a first connector configured to provide a first direct connection to the first network,

a second connector configured to provide a second direct connection to the second network, such that when the resolver in the first network forwards a name resolving request to a domain name service server in the second network, the name resolving request is sent directly from the resolver in the first network to the second network without using a network address translator server configured to process packets other than the name resolving request sent to the second network, and

a translator configured to perform address translation between the first network and the second network, the translator, separate from the network address translator server, performing address translation on the name resolving request sent directly to the second network without using the network address translator server,

wherein the resolver and the translator are configured to co-operate in order to translate addresses upon performing name resolving, and wherein the resolver and the translator are configured on the same domain name server for resolving the name resolving request rather than data traffic corresponding to the packets other than the name resolving request and occurring after the name resolving is performed,

wherein the translator is configured to select a particular network address translating element to be used for a connection between a first host in the first network and a second host in the second network,

wherein the translator is configured to add network address translating element information to the resolved address,

wherein the translator is configured to select a network address translating element based on information regarding the load on the network address translating element, and

wherein the network address translating elements are configured to send load information to the network element.

9. (Previously Presented) The system according to claim 8, wherein the load information is sent using a simple network management protocol.

10. (Currently Amended) A method, comprising:
processing, at a resolver, a name resolving request to obtain an address; and
performing, at a translator, address translation between a first network using a first network protocol and a second network using a second network protocol,

wherein the name resolving request processing and the address translation are performed in the resolver configured to perform name resolving, located in the first network, and having a first direct connection to the first network and a second direct connection to the second network, such that when the resolver in the first network forwards the name resolving request to a domain name service server in the second network, the name resolving request is sent directly from the resolver in the first network to the second network, the translator, separate from a network address translator server, performing address translation on the name resolving request sent directly to the second network without using the network address translator server configured to process packets other than the name resolving request sent to the second network, wherein the resolver and the translator are configured on the same domain name server for resolving the name resolving request rather than data traffic corresponding to the packets other than the name resolving request and occurring after the name resolving is performed.

11. (Previously Presented) The method according to claim 10, wherein the network element is a domain name service server.

12. (Previously Presented) The method according to claim 10, wherein the performing address translation comprises

selecting a particular address network translating element to be used for a connection between a first host in the first network and a second host in the second network; and

adding network address translating element information indicating the selected network translating element to the translated address.

13. (Original) The method according to claim 12, wherein the network address translating element information is an address prefix.

14. (Previously Presented) The method according to claim 12, wherein in the selecting, different network address translating elements are selected based on information regarding the load on the network address translating elements.

15. (Previously Presented) The method according to claim 10, wherein the first network protocol is internet protocol version 6, and the second network protocol is internet protocol version 4.

16. (Previously Presented) The method according to claim 14, further comprising:

sending load information from at least two network address translating elements to the network element.

17. (Previously Presented) The method according to claim 16, wherein the load information is sent using simple network management protocol.

18. (Previously Presented) The method according to claim 10, wherein the processing a name resolve request comprises

forwarding a name resolve request from the first network directly to a network name resolving element in the second network; and

receiving an address from the name resolving element in the second network.

19. (Currently Amended) An apparatus, comprising:

resolving means for performing name resolving,

communicating means for providing a first direct connection to a first network using a first network protocol;

communicating means for providing a second direct connection to a second network using a second network protocol, such that when the resolving means for performing name resolving in the first network forwards a name resolving request to a server in the second network, the name resolving request is sent directly from the resolving means for performing name resolving in the first network to the second network without using a network address translator server configured to process packets other than the name resolving request sent to the second network; and

translating means for performing address translation between the first network and the second network, the translating means, separate from the network address translator server, performing address translation on the name resolving request sent directly to the second network without using the network address translator server;

wherein the resolving means for performing name resolving and the translating means for performing address translation are configured to co-operate in order to

translate addresses upon performing name resolving, and wherein the resolving means and the translating means are configured on the same domain name server for resolving the name resolving request rather than data traffic corresponding to the packets other than the name resolving request and occurring after the name resolving is performed.

20. (Currently Amended) A computer program, embodied on a computer readable medium, configured to control a processor to implement a method, the method, comprising:

processing a name resolving request to obtain an address; and
performing address translation between a first network using a first network protocol and a second network using a second network protocol,
wherein the processor is located in a dedicated network name resolving element configured to perform name resolving located in the first network and having a first direct connection to the first network and a second direction connection to the second network, such that when a resolver in the first network forwards a name resolving request to a domain name service server in the second network, the name resolving request is sent directly from the resolver in the first network to the second network, the dedicated network name resolving element further comprising a translator performing address translation on the name resolving request sent directly to the second network without using a network address translator server configured to process packets other than the name resolving request sent to the second network, wherein the resolver and the translator are configured on the same domain name server for resolving the name

resolving request rather than data traffic corresponding to the packets other than the
name resolving request and occurring after the name resolving is performed.